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(54) INSULATING POWER CABLE MADE OF CROSSLINKED POLYETHYLENE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an insulating power cable made of crosslinked polyethylene, which can be manufactured at a low price, and in which $\tan \delta$ in a high temperature/high electric field is reduced.

SOLUTION: This is the insulating power cable made of crosslinked polyethylene wherein the insulator layer is composed of a crosslinked material of a resin composition in which 0.2 to 0.5 parts by weight of antioxidant prepared by mixing bis[2-methyl-4-(3-n-alkylthiopropionyloxy)-5-t-butylphenyl] sulfide 95 to 80 wt.% and 4,4'-thiobis (3-methyl-6-t-butylphenol) 5 to 20 wt.% are compounded against 100 parts by weight of polyethylene, and wherein grafting rate of bis[2-methyl-4-(3-n-alkylthiopropionyloxy)-5-t-butylphenyl] sulfide component to the polyethylene is 75% or more in its crosslinked material.

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